

INTERNATIONAL SEARCH REPORT

PCT/EP2004/012577

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04D17/12 F04D29/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CH 350 408 A (GEBRUEDER SULZER, AKTIENGESELLSCHAFT) 30 November 1960 (1960-11-30) page 2, line 41 - line 97; figure 1	1-5
A	GB 765 145 A (SULZER FRERES) 2 January 1957 (1957-01-02) page 2, line 25 - line 60; figure 1	1, 3-5
A	GB 754 322 A (SULZER FRERES, SOCIETE ANONYME) 8 August 1956 (1956-08-08) page 2, line 105 - page 3, line 12; figure 1	1, 3-5
A	US 3 861 825 A (BLOM ET AL) 21 January 1975 (1975-01-21) column 3, line 10 - column 6, line 21; figure 2	1, 2, 4, 5
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

04/03/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 1 515 450 A (GUTEHOFFNUNGSHUETTE STERKRADE AKTIENGESELLSCHAFT) 1 March 1968 (1968-03-01) page 2, paragraph 4; figure 1 -----	1,3
A	US 4 715 778 A (KATAYAMA ET AL) 29 December 1987 (1987-12-29) column 4, line 51 - column 6, line 16; figure 1 -----	1,3-5
A	GB 1 309 716 A (BROWN BOVERI-SULZER TURBOMACHINERY LTD) 14 March 1973 (1973-03-14) page 2, line 85 - page 3, line 81; figure 1 -----	1,3-5

INTERNATIONAL SEARCH REPORT

PCT/EP2004/012577

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
CH 350408	A	30-11-1960	NONE		
GB 765145	A	02-01-1957	NONE		
GB 754322	A	08-08-1956	NONE		
US 3861825	A	21-01-1975	AR	192594 A1	28-02-1973
			AU	465011 B2	18-09-1975
			AU	3549971 A	17-05-1973
			CA	957563 A1	12-11-1974
			DE	2158518 A1	29-06-1972
			FR	2119569 A5	04-08-1972
			GB	1364117 A	21-08-1974
			IT	941887 B	10-03-1973
			JP	57049758 B	23-10-1982
			NL	7115818 A	23-06-1972
FR 1515450	A	01-03-1968	NONE		
US 4715778	A	29-12-1987	JP	6040951 Y2	26-10-1994
			JP	62160795 U	13-10-1987
			CN	86102901 A	20-07-1988
			DE	3614144 A1	08-10-1987
			FR	2596464 A1	02-10-1987
			IT	1213065 B	07-12-1989
GB 1309716	A	14-03-1973	CH	532202 A	31-12-1972
			BE	776670 A1	14-06-1972
			DE	2100690 A1	22-06-1972
			FR	2118626 A5	28-07-1972
			IT	943988 B	10-04-1973
			JP	52041481 B	19-10-1977
			NL	7100817 A	19-06-1972
			US	3927763 A	23-12-1975